

MAIN FILE

original to FOA

copy to BW Ad. J. K. Jordan



RTP ENVIRONMENTAL ASSOCIATES, INC.[®]

AIR • WATER • SOLID WASTE CONSULTANTS

285 W. Esplanade, Suite 308 5
Kenner, LA 70065
(www.rtpenv.com)

JAN 21 2005
(504) 472-9993
Fax: (504) 472-9963

January 18, 2005

RECEIVED

JAN 24 2005

LDEQ

Dr. Chuck Carr Brown, Assistant Secretary
Louisiana Department of Environmental Quality
Office of Environmental Services
P.O. Box 4313
Baton Rouge, LA 70821-4313

Attention: Mr. Keith Jordan:

Supplemental Information
ERC Banking Forms
Request for Air Permit
Honeywell International Inc.
Geismar, Louisiana
Agency Interest No. 2082
RTPLA Project No. 2004-017

On behalf of Honeywell International Inc., RTP Environmental Associates, Inc. is submitting the VOC and NOx ERC Bank Application forms related to the captioned permit application. Calculations of the actual emissions of the emission sources that will be permanently removed from service in connection with this permitting action are also enclosed.

As this action is being processed in conjunction with a permit application, it is our understanding that no additional fees beyond those paid at the time the permit application was submitted are required. If this is not correct, please advise. Please do not hesitate to contact me if you have any questions or comments relating to this request.

Sincerely,

RTP ENVIRONMENTAL ASSOCIATES, INC.

A handwritten signature in dark ink, appearing to read "William J. Palermo", is written over a horizontal line.

William J. Palermo, P.E.

Principal

e-mail: bpalermo@rtpenv.com

Enc.

c: Mr. Brad Campesi, Honeywell International Inc. (w/ enc)

Department of Environmental Quality Office of
Air Quality and
Radiation Protection
P.O. Box 82135
Baton Rouge, LA 70884-2135
(504) 765-0195

LOUISIANA

ERC BANK APPLICATION

VOLATILE ORGANIC COMPOUNDS



COMPANY: Honeywell International Inc.

LOCATION: Geismar Ascension/Iberville
(City) (Parish)
(Physical Location)

MAILING ADDRESS: 5525 Highway 3115 Geismar LA 70734
(Street or P.O. Box) (City) (State) (Zip Code)

1.02

(ERCs deposited-TPY)

0.00

(ERCs relied upon for netting-TPY)

0.70

(ERCs relied upon for offsets-TPY)

following new source startup

0.32

0.32

(Date of Emissions Increase/Decrease)

(ERCs available for netting-TPY)

(ERCs available for offsets-TPY)

COMMENTS

Honeywell has submitted an application to LDEQ to allow it to install and operate two new diesel fired emergency generators at its Geismar plant. As the project will be classified as a major modification under the Nonattainment New Source Review program, Honeywell has incorporated LAER into the design of the new emergency generators and will satisfy the internal LAER requirement of 1.3 to 1 by shutting down three existing emissions units upon the startup of the new emergency generators.

AFFECTED PERMITS

Permit Number: 0180-00003-V0, 2394(M-1)

Facility: Geismar Plant

Affected EIQ Source ID No(s): 4-93(0180-00003-V0), 89-71 and 89-77(2394(M-1))

I hereby certify that the information contained in this ERC Bank Application and calculations is true and accurate to the best of my knowledge.

J. William Lessig

(Name)

Site Leader

(Title)

(225) 642-8311

(Telephone Number)

(Signature)

(Date)

January 5, 1999

Department of Environmental Quality Office of
Air Quality and
Radiation Protection
P.O. Box 82135
Baton Rouge, LA 70884-2135
(504) 765-0195

LOUISIANA

ERC BANK APPLICATION

OXIDES OF NITROGEN



COMPANY: Honeywell International Inc.

LOCATION: Geismar Ascension/Iberville
(City) (Parish)

(Physical Location)

MAILING ADDRESS: 5525 Highway 3115 Geismar LA 70734
(Street or P.O. Box) (City) (State) (Zip Code)

9.54

0.00

7.64

(ERCs deposited-TPY)

(ERCs relied upon for netting-TPY)

(ERCs relied upon for offsets-TPY)

following new source startup

1.90

1.90

(Date of Emissions Increase/Decrease)

(ERCs available for netting-TPY)

(ERCs available for offsets-TPY)

COMMENTS

Honeywell has submitted an application to LDEQ to allow it to install and operate two new diesel fired emergency generators at its Geismar plant. As the project will be classified as a major modification under the Nonattainment New Source Review program, Honeywell has incorporated LAER into the design of the new emergency generators and will satisfy the internal LAER requirement of 1.3 to 1 by shutting down three existing emissions units upon the startup of the new emergency generators.

AFFECTED PERMITS

Permit Number: 0180-00003-V0, 2394(M-1)

Facility: Geismar Plant

Affected EIQ Source ID No(s): 4-93(0180-00003-V0), 89-71 and 89-77(2394(M-1))

I hereby certify that the information contained in this ERC Bank Application and calculations is true and accurate to the best of my knowledge.

J. William Lessig

Site Leader

(225) 642-8311

(Name)

(Title)

(Telephone Number)

Handwritten signature of J. William Lessig.
(Signature)

11/13/05
(Date)

January 5, 1999



Air Emissions Calculation Sheet

RTP Environmental Associates, Inc.

Kenner, Louisiana

Client: HONEYWELL INTERNATIONAL INC. - GEISMAR PLANT

Source Description: SUMMARY - SHUTDOWN DECREASES (ACTUAL EMISSIONS)

Point Source ID No.:

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EPN 4-93	Emission (tpy)		
Pollutant	CY 2000	CY 2001	Average
PM 10	1.4	1.5	1.4
Sulfur dioxide	0.1	0.1	0.1
Nitrogen oxides	8.9	9.6	9.2
Carbon Monoxide	15.0	16.1	15.5
VOC	1.0	1.1	1.0

EPN 89-71	Emission (tpy)		
Pollutant	CY 2000	CY 2001	Average
PM 10	0.01	0.01	0.01
Sulfur dioxide	0.01	0.01	0.01
Nitrogen oxides	0.12	0.12	0.12
Carbon Monoxide	0.03	0.03	0.03
VOC	0.01	0.01	0.01

EPN 89-77	Emission (tpy)		
Pollutant	CY 2000	CY 2001	Average
PM 10	0.02	0.02	0.02
Sulfur dioxide	0.01	0.01	0.01
Nitrogen oxides	0.22	0.22	0.22
Carbon Monoxide	0.05	0.05	0.05
VOC	0.01	0.01	0.01



Air Emissions Calculation Sheet

RTP Environmental Associates, Inc.

Kenner, Louisiana

Client: HONEYWELL INTERNATIONAL INC. - GEISMAR PLANT

Source Description: STEAM BOILER NO. 1

Point Source ID No.: 4-93

Page 1 of 1

2000 Emissions

Fuel Type = Natural Gas

Unit Output capacity 61,000 lb steam/hr

Gas consumption 356 MMscf

Pollutant	Emission Factor (1) (lb/10 ⁶ scf)	Emissions
		Annual (tons/yr)
PM 10	7.6	1.35
Sulfur dioxide	0.6	0.11
Nitrogen oxides	50	8.90
Carbon Monoxide	84	14.96
VOC	5.5	0.98
Methane	2.3	0.41

NOTES:

1. The emission factors are taken from Table 1.4-1 and 1.4-2 for low NOx burners (in the Feb. 1998 edition of AP-42)



Air Emissions Calculation Sheet

RTP Environmental Associates, Inc.
Kenner, Louisiana

Client: HONEYWELL INTERNATIONAL INC. - GEISMAR PLANT

Source Description: STEAM BOILER NO. 1

Point Source ID No.: 4-93

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2001 Emissions

Fuel Type = Natural Gas

Unit Output capacity 61,000 lb steam/hr

Gas consumption 383 MMscf

Pollutant	Emission Factor (1) (lb/10 ⁶ scf)	Emissions
		Annual (tons/yr)
PM 10	7.6	1.45
Sulfur dioxide	0.6	0.11
Nitrogen oxides	50	9.57
Carbon Monoxide	84	16.08
VOC	5.5	1.05
Methane	2.3	0.44

NOTES:

1. The emission factors are taken from Table 1.4-1 and 1.4-2 for low NOx burners (in the Feb. 1998 edition of AP-42)



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Air Emissions Calculation Sheet

RTP Environmental Associates, Inc.
Kenner, Louisiana

Client: HONEYWELL INTERNATIONAL INC. - GEISMAR PLANT

Source Description: CLARIFIER DIESEL GENERATOR ENGINE

Point Source ID No.: 89-71

Page 1 of 1

2002 Emissions

Fuel Type = Diesel

Maximum Horsepower = 300 HP
Average Horsepower = 300 HP
Annual hours of operation = 26 Hours

Pollutant	Emission Factor (1) (lb/hp-hr)	Rated Power		Emissions		
		Max (hp)	Avg (hp)	Max (lb/hr)	Avg (lb/hr)	Annual (tons/yr)
PM 10	2.20E-03	300	300	0.66	0.66	0.01
Sulfur dioxide	2.05E-03	300	300	0.62	0.62	0.01
Nitrogen oxides	0.031	300	300	9.30	9.30	0.12
Carbon Monoxide	6.68E-03	300	300	2.00	2.00	0.03
VOC (2)	1.70E-03	300	300	0.51	0.51	0.01
Non-reactive HC (3)	1.24E-03	300	300	0.37	0.37	0.005

NOTES:

1. The emission factors are taken from Table 3.3-2 in the January 1995 edition of AP-42.
2. The VOC emission factor is based on 50% of the exhaust Total HC emission factor plus the emission factor for aldehydes.
3. The Non-reactive HC emission factor is based on 50% of the exhaust Total HC emission factor.



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Air Emissions Calculation Sheet

RTP Environmental Associates, Inc.
Kenner, Louisiana

Client: HONEYWELL INTERNATIONAL INC. - GEISMAR PLANT

Source Description: CLARIFIER DIESEL GENERATOR ENGINE

Point Source ID No.: 89-71

Page 1 of 1

2003 Emissions

Fuel Type = Diesel

Maximum Horsepower = 300 HP
Average Horsepower = 300 HP
Annual hours of operation = 26 Hours

Pollutant	Emission Factor (1) (lb/hp-hr)	Rated Power		Emissions		
		Max (hp)	Avg (hp)	Max (lb/hr)	Avg (lb/hr)	Annual (tons/yr)
PM 10	2.20E-03	300	300	0.66	0.66	0.01
Sulfur dioxide	2.05E-03	300	300	0.62	0.62	0.01
Nitrogen oxides	0.031	300	300	9.30	9.30	0.12
Carbon Monoxide	6.68E-03	300	300	2.00	2.00	0.03
VOC (2)	1.70E-03	300	300	0.51	0.51	0.01
Non-reactive HC (3)	1.24E-03	300	300	0.37	0.37	0.005

NOTES:

1. The emission factors are taken from Table 3.3-2 in the January 1995 edition of AP-42.
2. The VOC emission factor is based on 50% of the exhaust Total HC emission factor plus the emission factor for aldehydes.
3. The Non-reactive HC emission factor is based on 50% of the exhaust Total HC emission factor.



Air Emissions Calculation Sheet

RTP Environmental Associates, Inc.

Kenner, Louisiana

Client: HONEYWELL INTERNATIONAL INC. - GEISMAR PLANT

Source Description: HF DIESEL GENERATOR ENGINE

Point Source ID No.: 89-77

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2002 Emissions

Fuel Type = Diesel

Maximum Horsepower = 550 HP

Average Horsepower = 550 HP

Annual hours of operation = 26 Hours

Pollutant	Emission Factor (1) (lb/hp-hr)	Rated Power		Emissions		
		Max (hp)	Avg (hp)	Max (lb/hr)	Avg (lb/hr)	Annual (tons/yr)
PM 10	2.20E-03	550	550	1.21	1.21	0.02
Sulfur dioxide	2.05E-03	550	550	1.13	1.13	0.01
Nitrogen oxides	0.031	550	550	17.05	17.05	0.22
Carbon Monoxide	6.68E-03	550	550	3.67	3.67	0.05
VOC (2)	1.70E-03	550	550	0.93	0.93	0.01
Non-reactive HC (3)	1.24E-03	550	550	0.68	0.68	0.01

NOTES:

1. The emission factors are taken from Table 3.3-2 in the January 1995 edition of AP-42.
2. The VOC emission factor is based on 50% of the exhaust Total HC emission factor plus the emission factor for aldehydes.
3. The Non-reactive HC emission factor is based on 50% of the exhaust Total HC emission factor.



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Air Emissions Calculation Sheet

RTP Environmental Associates, Inc.
Kenner, Louisiana

Client: HONEYWELL INTERNATIONAL INC. - GEISMAR PLANT

Source Description: HF DIESEL GENERATOR ENGINE

Point Source ID No.: 89-77

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2003 Emissions

Fuel Type = Diesel

Maximum Horsepower = 550 HP
Average Horsepower = 550 HP
Annual hours of operation = 26 Hours

Pollutant	Emission Factor (1) (lb/hp-hr)	Rated Power		Emissions		
		Max (hp)	Avg (hp)	Max (lb/hr)	Avg (lb/hr)	Annual (tons/yr)
PM 10	2.20E-03	550	550	1.21	1.21	0.02
Sulfur dioxide	2.05E-03	550	550	1.13	1.13	0.01
Nitrogen oxides	0.031	550	550	17.05	17.05	0.22
Carbon Monoxide	6.68E-03	550	550	3.67	3.67	0.05
VOC (2)	1.70E-03	550	550	0.93	0.93	0.01
Non-reactive HC (3)	1.24E-03	550	550	0.68	0.68	0.01

NOTES:

1. The emission factors are taken from Table 3.3-2 in the January 1995 edition of AP-42.
2. The VOC emission factor is based on 50% of the exhaust Total HC emission factor plus the emission factor for aldehydes.
3. The Non-reactive HC emission factor is based on 50% of the exhaust Total HC emission factor.